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(54) **CELL CULTURE SYSTEM AND CELL MASS PRODUCTION METHOD USING SAME**

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**ABSTRACT**

A cell culture system for dividing and subculturing cell aggregates is constituted by connecting a first container 10 and a divider 20. An outlet of a divider is connected to the first container. A mesh structure 22 for dividing a cell aggregate is provided in a conduit for dividing in the divider 20, and a cell aggregate is divided while passing through the mesh structure. The divided cell aggregate is sent to the first container 10 without contacting the outside air in a preferred embodiment, where further culture is performed. This makes it possible to divide the cell aggregate and perform suspension culture while maintaining the closed system. The division and suspension culture of cell aggregates can be repeated by sending the cultured cell aggregates to a divider of its own cell culture system or a divider of a cell culture system prepared separately.

